

Having thus described the invention, it is so claimed:

1. An oxygen gas regulator for medical use comprising:
a regulator body having a gas inlet admitting gas at high pressure;
an upper chamber receiving gas from said gas inlet;
a lower chamber;
5 a gas outlet receiving gas from said lower chamber;
a passage from said upper chamber to said lower chamber;
an atmospheric pressure chamber;
a movable piston having a bottom surface exposed in said lower chamber and a top
10 surface exposed in said atmospheric pressure chamber;
a variable orifice controlling flow of gas through said gas inlet, said variable orifice
being controlled by said piston; and,
five biasing springs urging said piston toward said lower chamber.
2. The regulator of claim 1, wherein said piston has a central axis and said springs are
received in recesses evenly spaced about a circle concentric with said axis.
3. The regulator of claim 2, wherein said recesses are cylindrical pockets.
4. The regulator of claim 3, wherein ~~(said spring retaining pockets)~~ are in a spring
15 support.
5. The regulator of claim 4, wherein said regulator body is generally cylindrical and has
an axis and said piston axis is coaxial with said regulator axis.
6. An oxygen gas regulator for medicinal use comprising:

a regulator body having a gas inlet admitting gas to an upper pressure chamber;
a lower chamber communicating with said upper chamber having a low pressure gas
outlet;

5 a piston exposed to said lower chamber, said piston controlling an orifice controlling
the flow of gas into said upper chamber; and,
five biasing springs urging said piston toward said lower chamber.

7. The regulator of claim 6, wherein said orifice is at the junction of the gas inlet and
the upper chamber.

See 7 8. The regulator of claim 7, wherein ~~(said orifice formed)~~ by the center of said piston and
said gas inlet.

9. The regulator of claim 8, wherein said piston has a central axis and said springs are
received in cylindrical pockets evenly spaced about a circle concentric with said axis.

See 7 10. The regulator of claim 9, wherein ~~(said spring retaining pockets)~~ are in a spring
support.